A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B60G3/20 B60G7/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC  $\frac{7}{8606}$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## PAJ, EPO-Internal

Category °	Citation of document, with indication, where appropriate, of the relevant passages	
		Relevant to claim No
X	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 08, 29 August 1997 (1997-08-29) -& JP 09 095113 A (HONDA MOTOR CO LTD),	1-3,5,9
Y	8 April 1997 (1997-04-08) abstract; figures 1-4	4,6-8
Y A	EP 0 135 857 A (BAYERISCHE MOTOREN WERKE AG) 3 April 1985 (1985-04-03)	4
	abstract; claims 1,2; figure 1 page 4, line 16 -page 5, line 10	2,3,6-8
<b>'</b>	US 6 267 526 B1 (MCLAUGHLIN RONALD J) 31 July 2001 (2001-07-31)	6-8
1	figures 5A,9,10	2,3,5,9
	-/	

Further documents are listed in the continuation of box C.     Special categories of cited documents:	Patent family members are listed in annex.
"A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier document but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the International filling date but later than the priority date claimed  Date of the actual completion of the international search	"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "8" document member of the same patent family  Date of mailing of the international search report
Name and mailing address of the ISA	21/09/2004 Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Tsitsilonis, L

Category °	Citation of document, with indication, where appropriate of the reference	
	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y A	PATENT ABSTRACTS OF JAPAN vol. 014, no. 517 (M-1047), 13 November 1990 (1990-11-13) & JP 02 216309 A (MAZDA MOTOR CORP), 29 August 1990 (1990-08-29) abstract; figures 1,2	6-8
		1-3,5
Y	US 4 181 189 A (HOBBENSIEFKEN DEAN) 1 January 1980 (1980-01-01)	8
Α	figures 2,3,5	5-7
A	EP 0 262 661 A (MAZDA MOTOR) 6 April 1988 (1988-04-06) abstract; figures 1-5	1-3,5-9
<b>A</b>	PATENT ABSTRACTS OF JAPAN vol. 014, no. 305 (M-0992), 29 June 1990 (1990-06-29) & JP 02 099415 A (MAZDA MOTOR CORP), 11 April 1990 (1990-04-11) abstract; figures	1-3,5-7
4	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 10, 30 November 1995 (1995-11-30) & JP 07 186649 A (HONDA MOTOR CO LTD), 25 July 1995 (1995-07-25) abstract; figures 3-5	1-3,5-7
1	PATENT ABSTRACTS OF JAPAN vol. 007, no. 261 (M-257), 19 November 1983 (1983-11-19) & JP 58 141907 A (NISSAN JIDOSHA KK), 23 August 1983 (1983-08-23) abstract; figures 2-6	
}		
	•	
İ		
	•	
	·	
1		
İ		

national Application No

.7/IB2004/001196

		<del></del>		/1B2004/001196		
ated	atent document d in search report		Publication date		Patent family member(s)	Publication date
JP	09095113	Α	08-04-1997	NONE		
ΕP	0135857	Α	03-04-1985	DE	3333706 A1	11-04-198
				ΕP	0135857 A2	
		•		JP	60088615 A	18-05-1989
				US	4589677 A	20-05-1986
US	6267526	B1	31-07-2001	DE	10031454 A1	18-01-2001
				GB	2351479 A	,B 03-01-2001
				JP	2001055029 A	27-02-2001
JP	02216309	A	29-08-1990	NONE		
us 	4181189	Α	01-01-1980	NONE		
ΕP	0262661	A	06-04-1988	 JP	63090411 A	21 04 1000
				DE	3766212 D1	21-04-1988 20-12-1990
				ĒΡ	0262661 A2	06-04-1988
				KR	9107519 B1	27-09-1991
				US	4810004 A	07-03-1989
JP	02099415 	Α	11-04-1990	NONE		
JP (	07186649	A	25-07-1995	DE	4408571 A1	29-09-1994
				GB	2277303 A	,B 26-10-1994
				US	5507510 A	16-04-1994 16-04-1996
JP !	58141907	 A	23-08-1983	DE		
		••	F2 00-1303	DE Ep	3279084 D1	10-11-1988
				US	0071250 A2	09-02-1983
				US	4537420 A	27-08-1985